



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,981	03/22/2004	Yun Jang	1190860-991490	2200

26379 7590 09/20/2005

DLA PIPER RUDNICK GRAY CARY US, LLP  
2000 UNIVERSITY AVENUE  
E. PALO ALTO, CA 94303-2248

EXAMINER
----------


NGUYEN, THANH NHAN P

ART UNIT	PAPER NUMBER
----------	--------------

2871

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/806,981	<b>Applicant(s)</b> JANG ET AL. 	
	<b>Examiner</b> (Nancy) Thanh-Nhan P. Nguyen	<b>Art Unit</b> 2871	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-47 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-47 are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### Election/Restrictions

1. Claims 1-47 are pending in the application.
2. Claims 1-47 contain embodiments/examples directed to following patentably distinct species of the claims invention:
  - a. One embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the first substrate, wherein the second spacers are arranged in a line, and wherein the line is substantially perpendicular to a liquid crystal injection direction, [fig. 8; claims 1-9 & 12; 24-30 & 32-35].
  - b. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the first substrate, wherein the second spacers are arranged substantially in parallel to a liquid crystal injection direction, [fig. 10; claims 1-4, 6-10 & 12; 24-26, 28-30 & 32-35].
  - c. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the first substrate, wherein the second spacers are arranged in a zigzag form, [fig. 11; claims 1-4, 6-9 & 11-12; 24-26, 28-30 & 32-35].
  - d. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the first substrate, further comprising third spacers formed on the outside of the first display part, wherein the second and the third spacers are disposed alternately to form a zigzag shape, [fig. 32; claims 1-4, 6-9 & 12; 24-26 & 28-35].

- e. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the second substrate, wherein the second spacers are arranged in a line, and wherein the line is substantially perpendicular to a liquid crystal injection direction, [fig. 16; claims 1, 13-20 & 23; 36-42 & 44-47].
- f. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the second substrate, wherein the second spacers are arranged substantially in parallel to a liquid crystal injection direction, [fig. 17; claims 1, 13-15, 17-21 & 23; 36-38, 40-42 & 44-47].
- g. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the second substrate, wherein the second spacers are arranged in a zigzag form, [fig. 18; claims 1, 13-15, 17-20 & 22-23; 36-38, 40-42 & 44-47].
- h. Another embodiment drawn to a liquid crystal display comprising the first and second spacers are formed on the second substrate, further comprising third spacers formed on the outside of the second display part, wherein the second and third spacers are disposed alternately to form a zigzag shape, [claims 1, 13-15, 17-20 & 23; 36-38, 40-42, & 44-47].

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, it appears that claim 1 is generic.

Applicant is advised that the reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent from or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

Art Unit: 2871

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P Nguyen

Examiner

Art Unit 2871

--September 7, 2005 --TN

  
**ROBERT KIM**  
**ADVISORY PATENT EXAMINER**